

*Fig. 1*

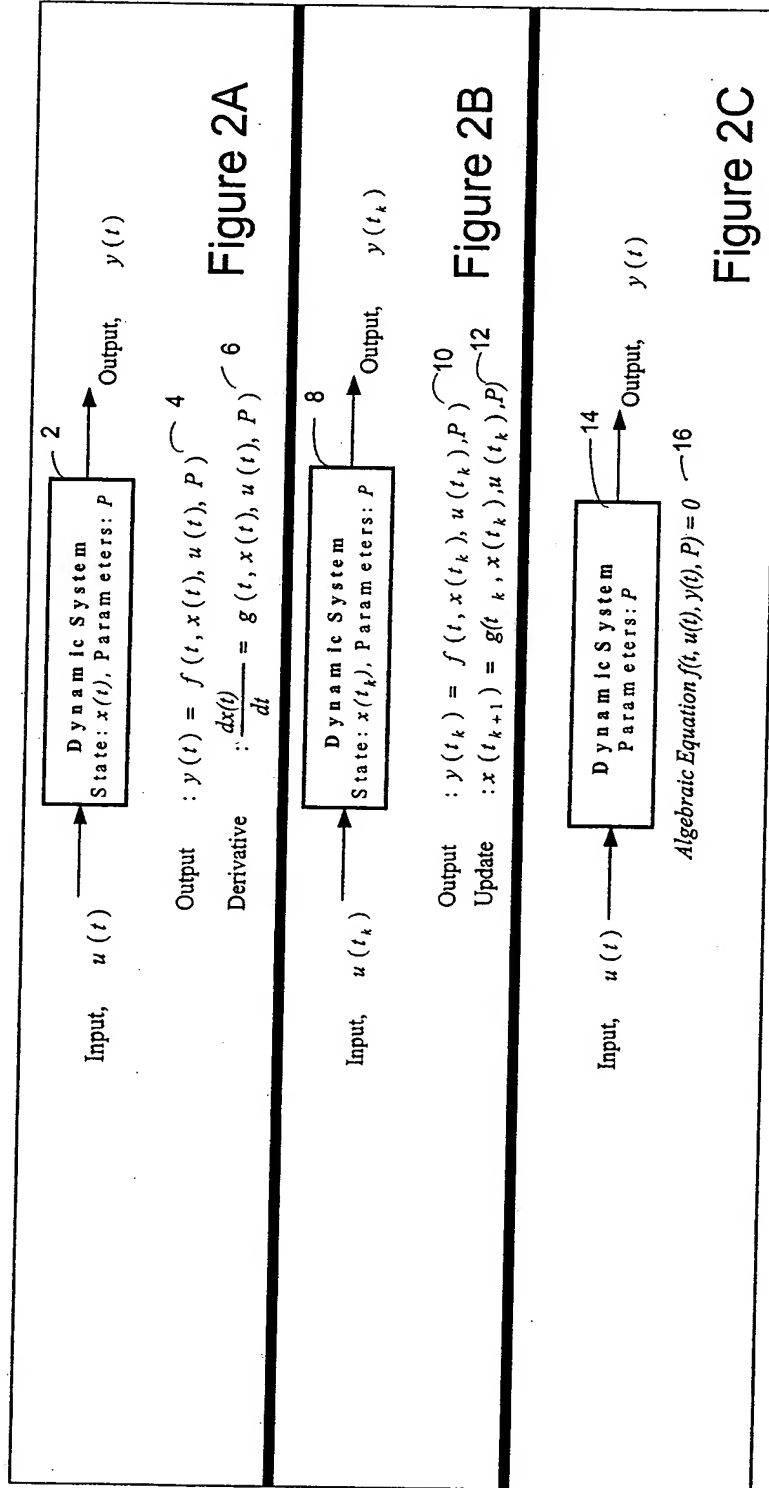


Figure 3

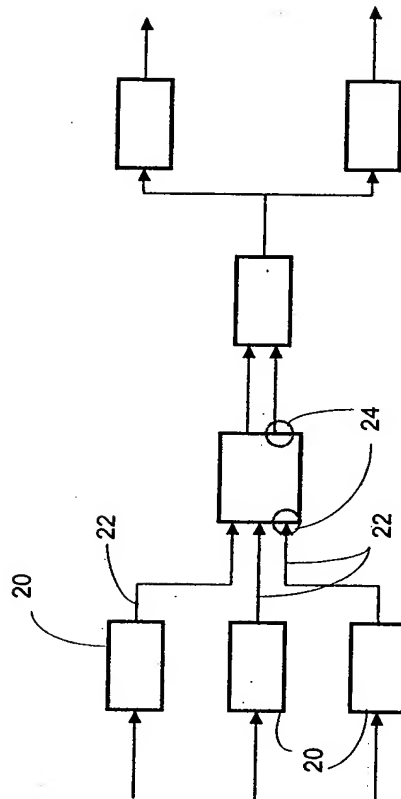


Figure 4

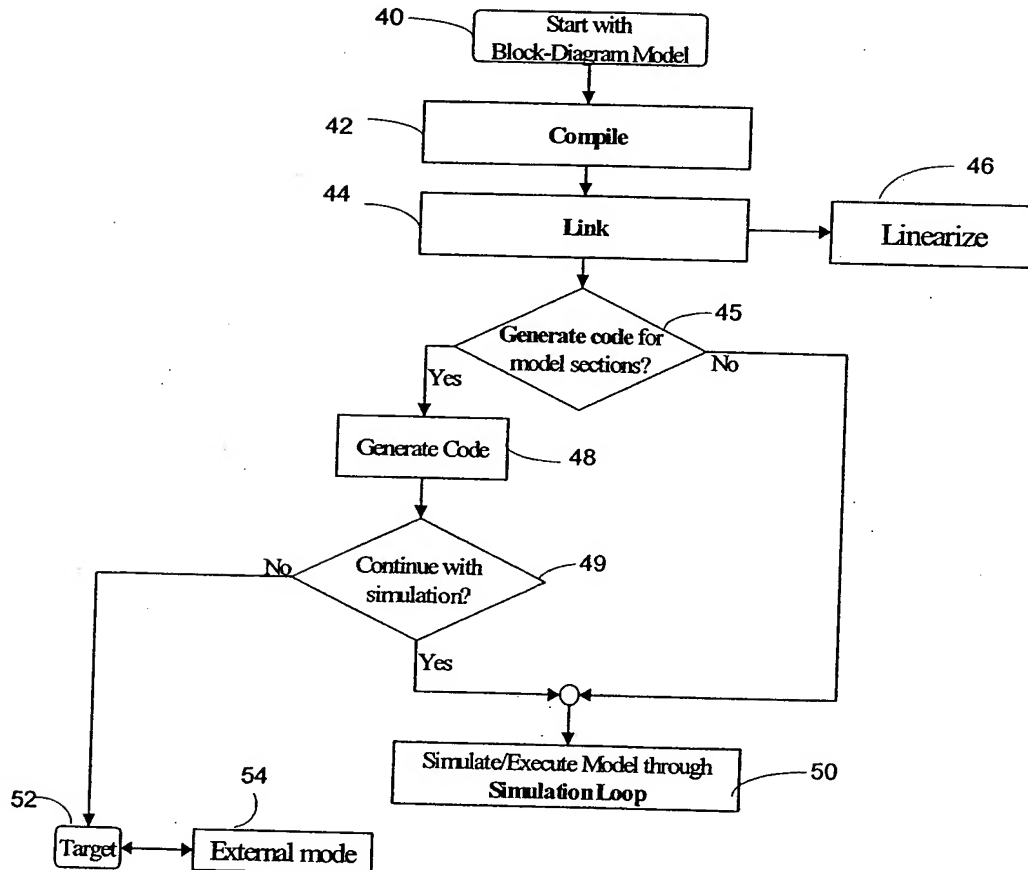
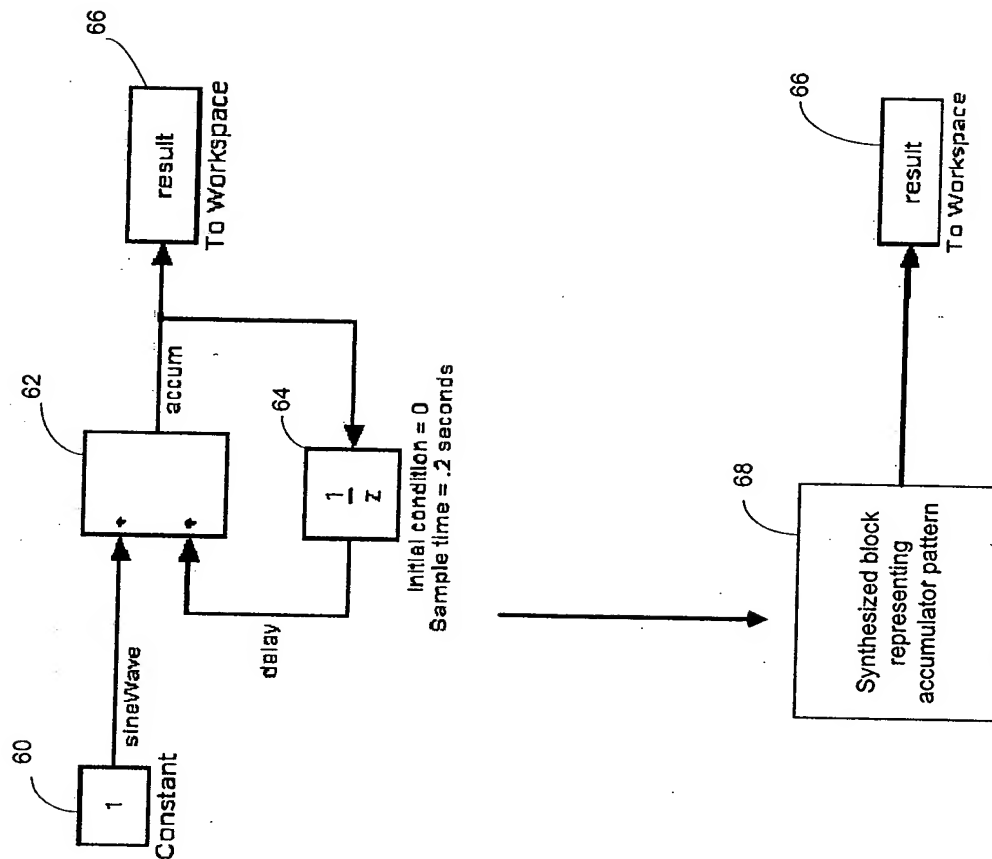
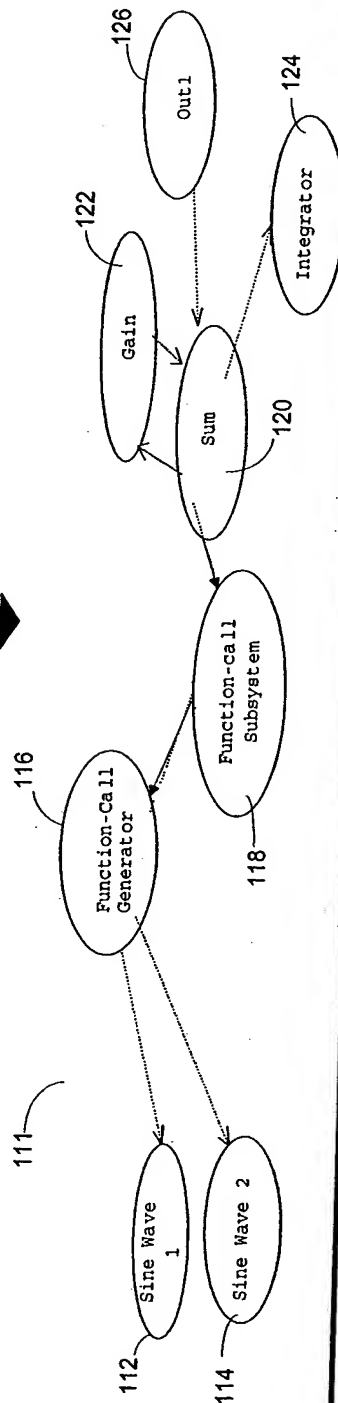
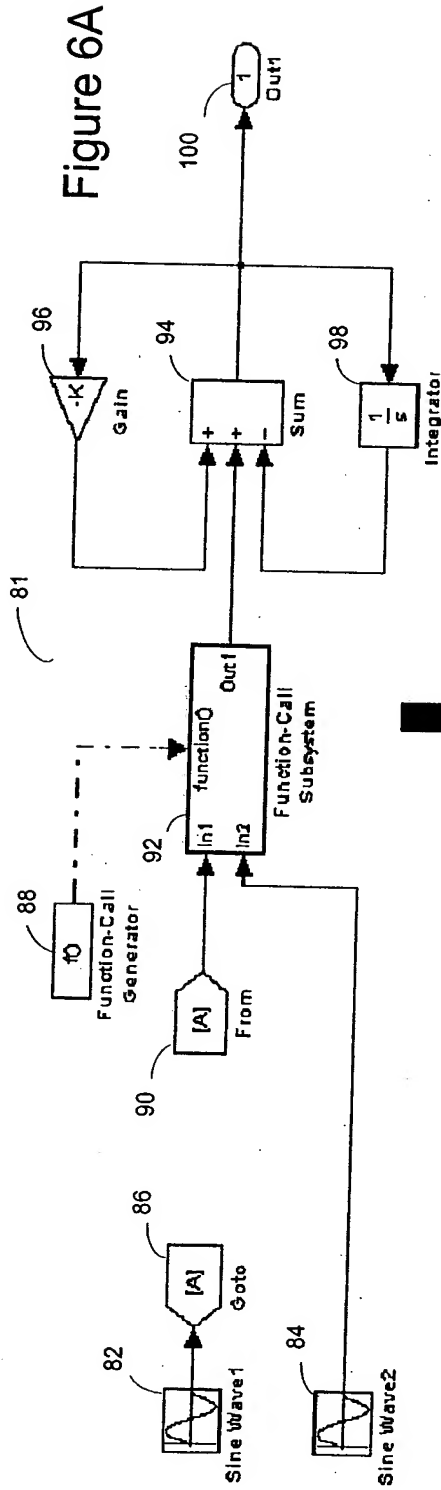


Figure 5





Sorted List:

0:0 Sine Wave 1  
 0:1 Sine Wave 2  
 0:2 Function-Call Generator  
 0:3 Function-Call Subsystem  
 0:4 Integrator  
 0:5 Gain (algebraic id 0#1)  
 0:6 Sum (algebraic variable for id 0#1)  
 0:7 Out1

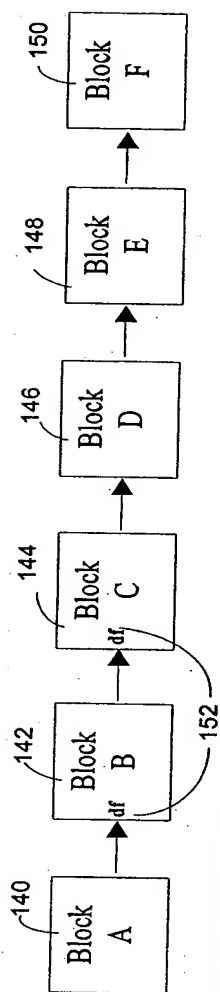


Figure 7A

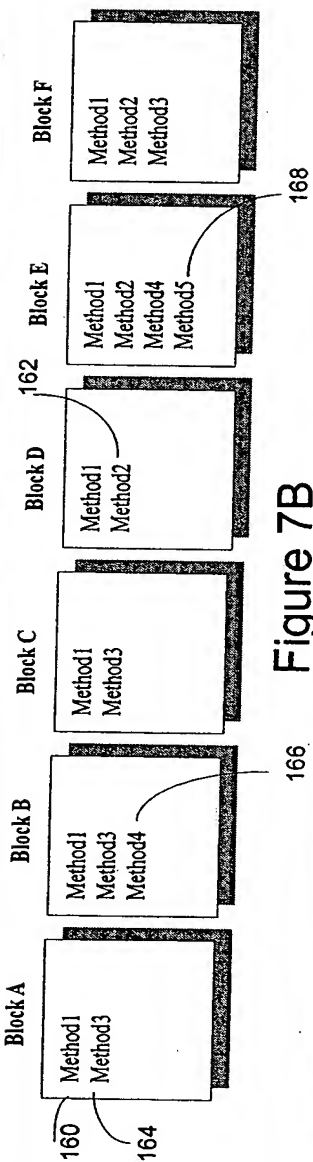


Figure 7B

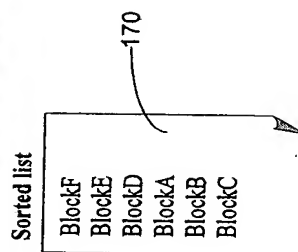


Figure 7C

Figure 8

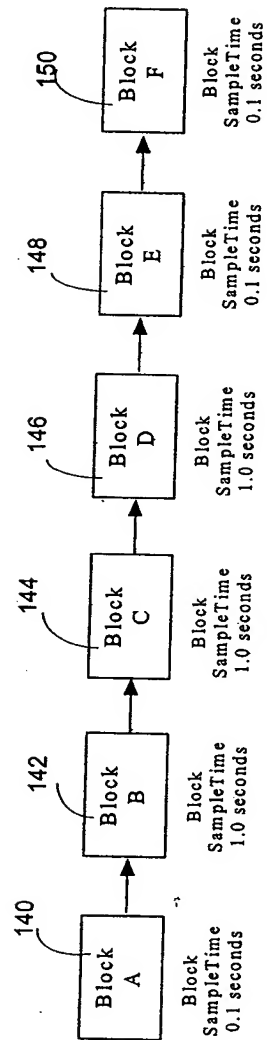




Figure 9

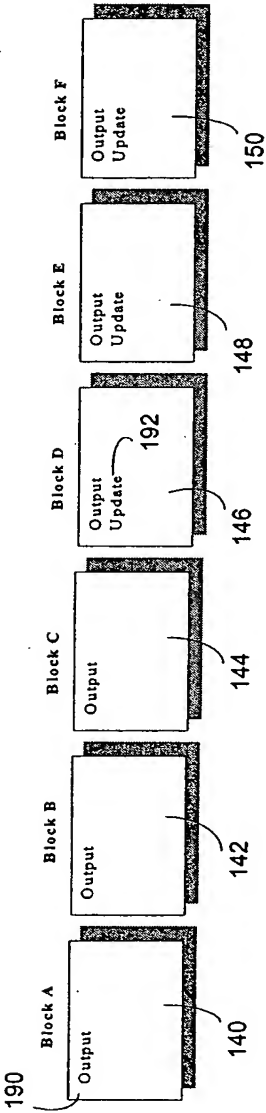


Figure 10

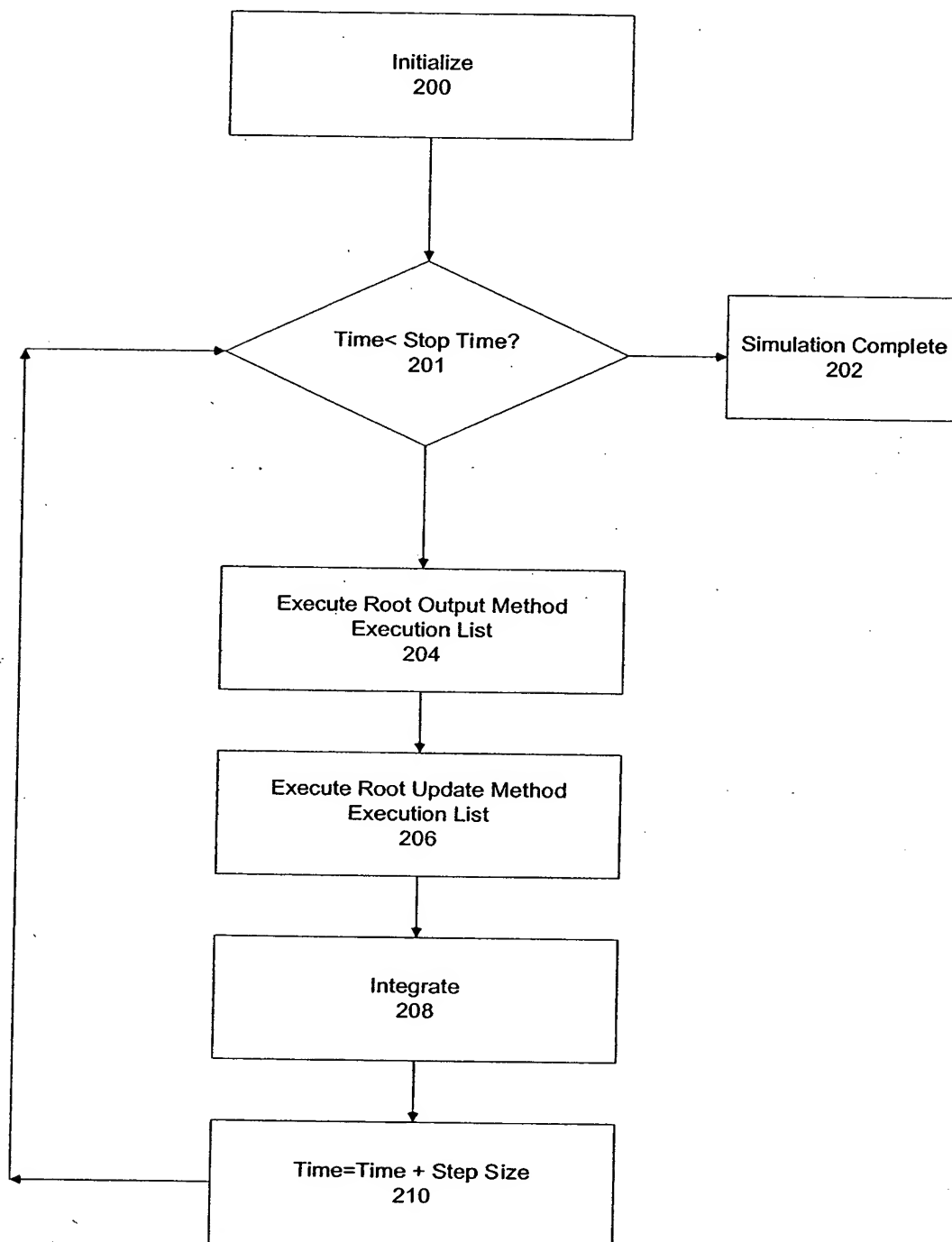
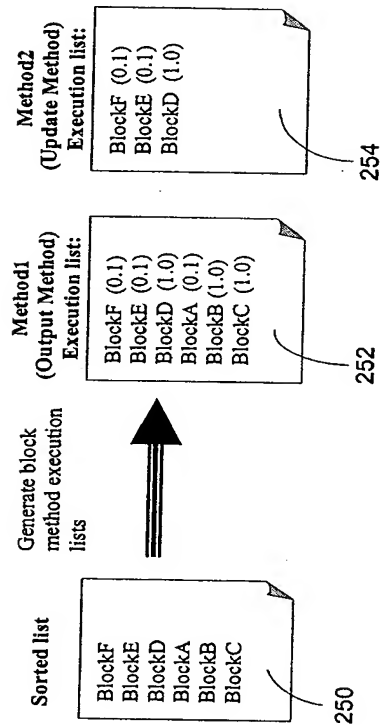


Figure 11A



## Figure 11B

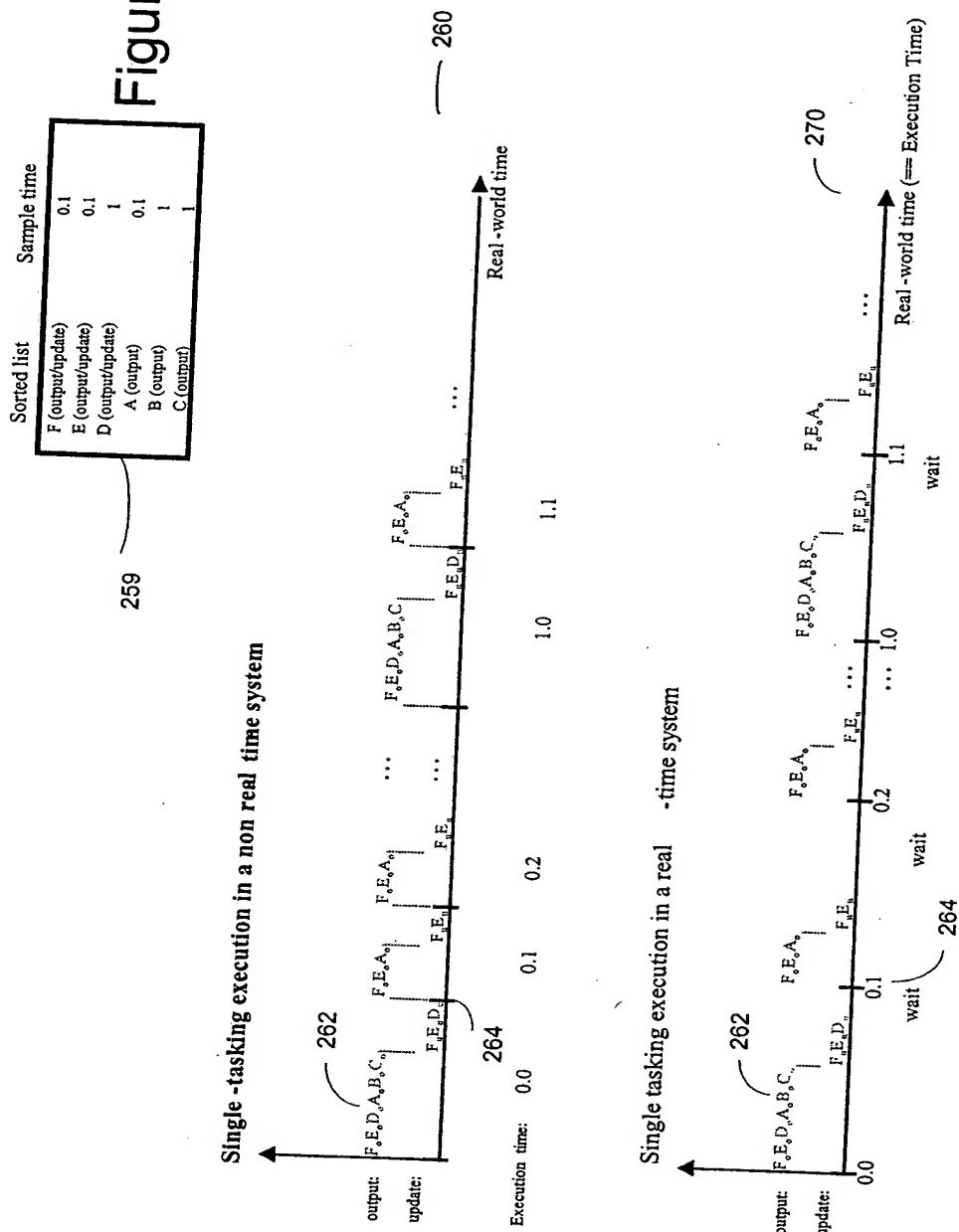


Figure 12A

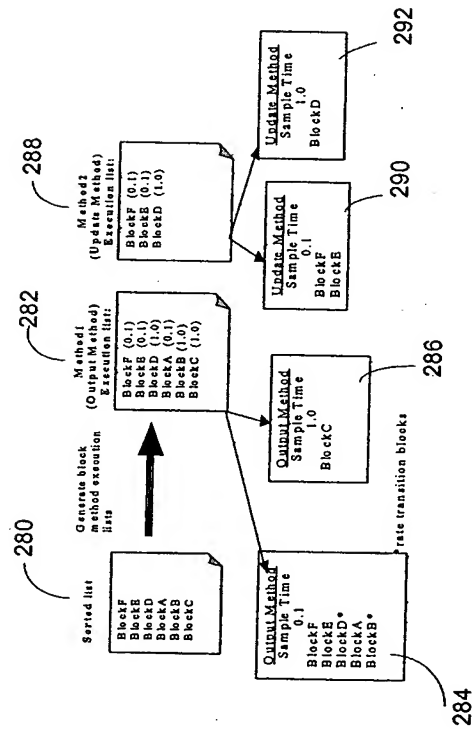


Figure 12B

Sorted list	Sample time
F (output/update)	0.1
E (output/update)	0.1
D (output/update)	1 promoted to 0.1 task
A (output)	0.1
B (output)	1 promoted to 0.1 task
C (output)	1

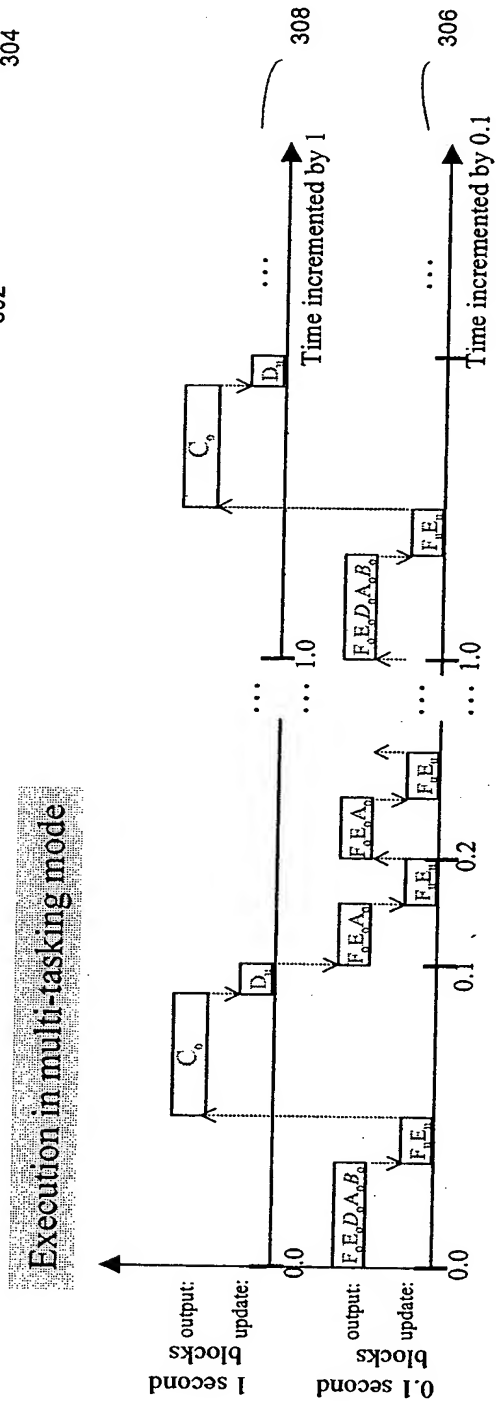


Figure 13

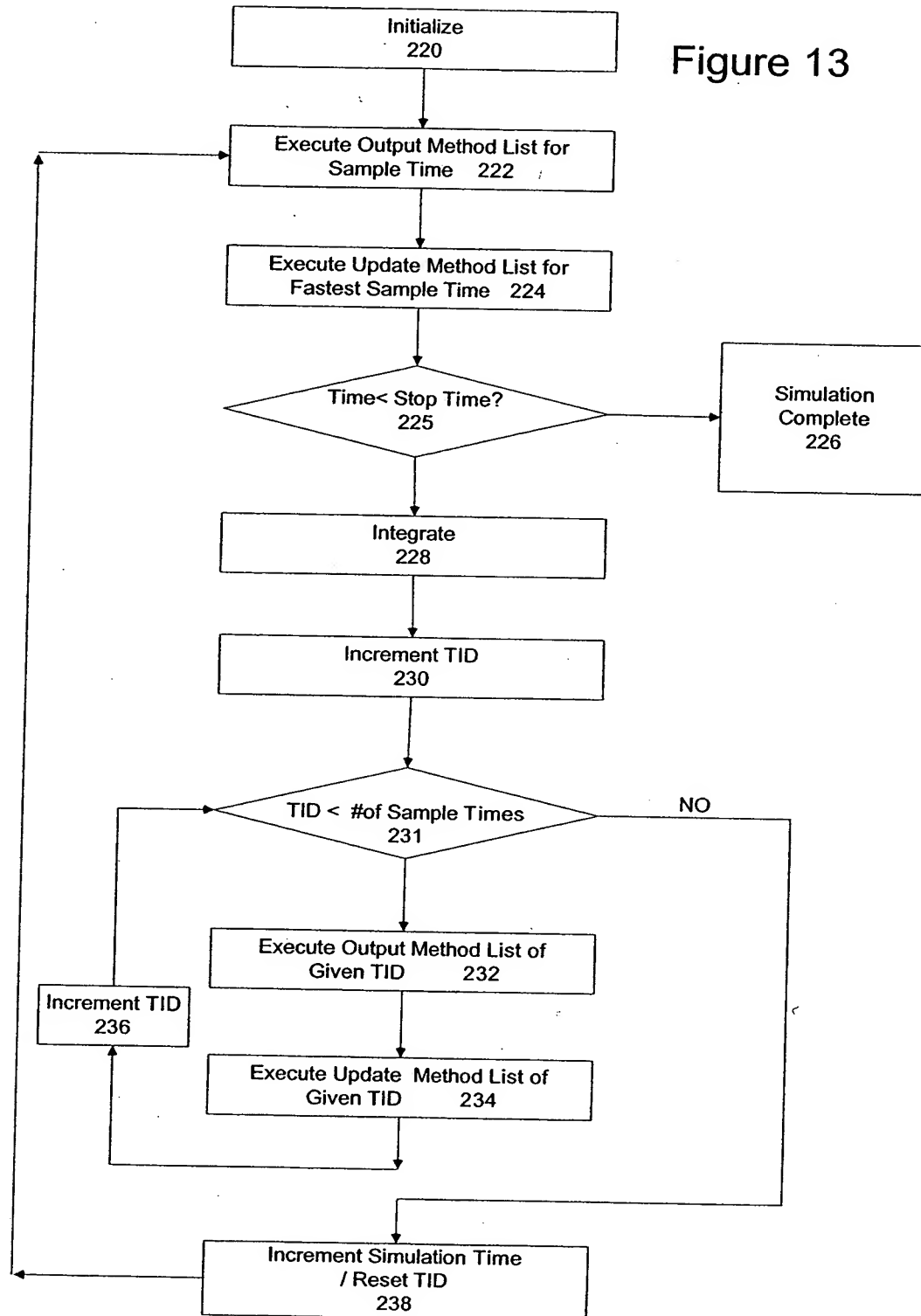
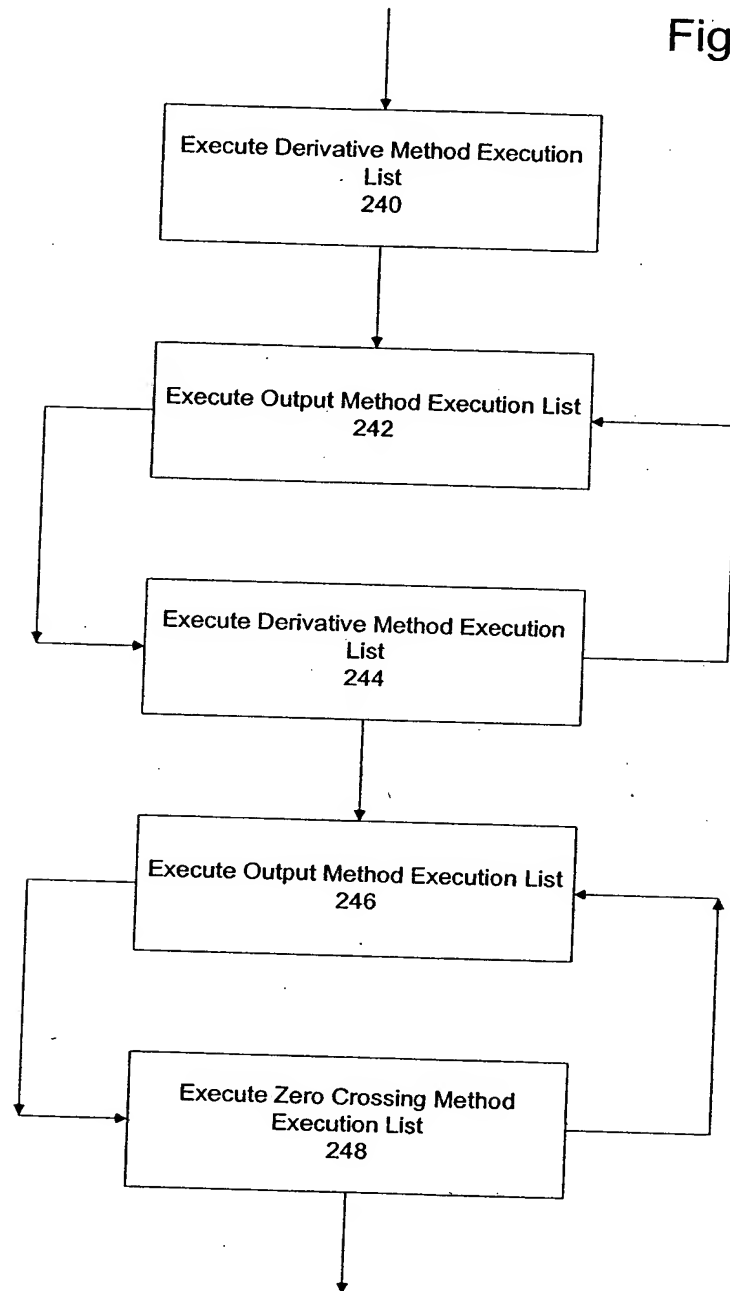
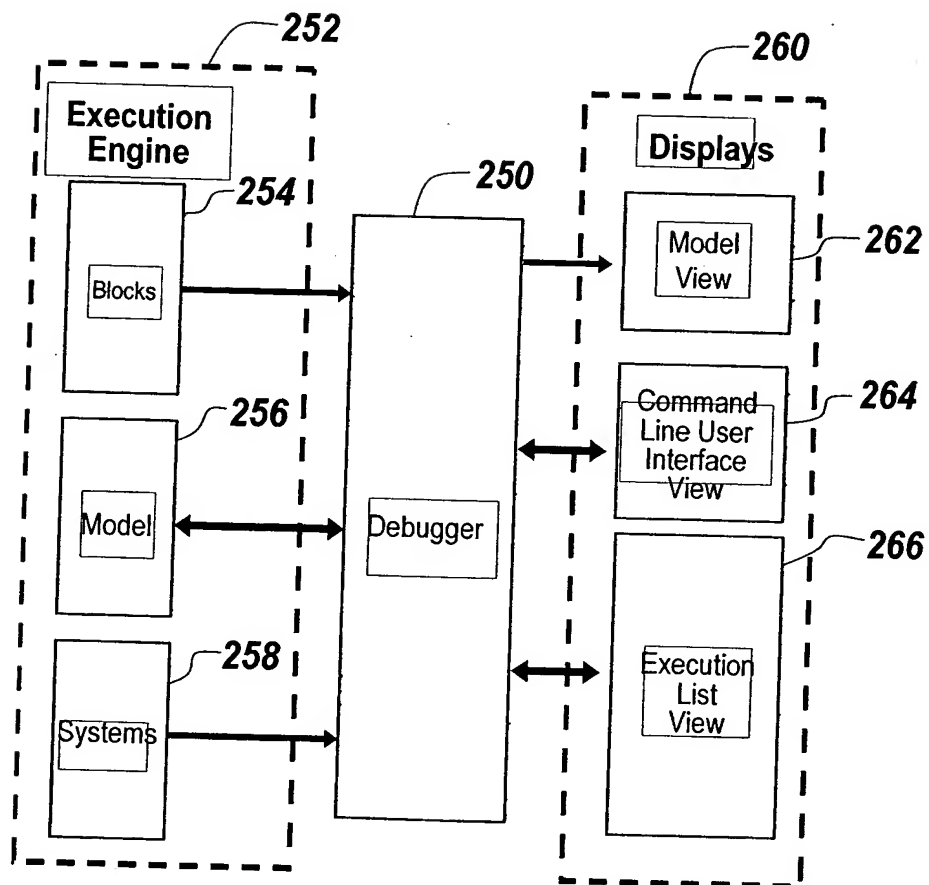


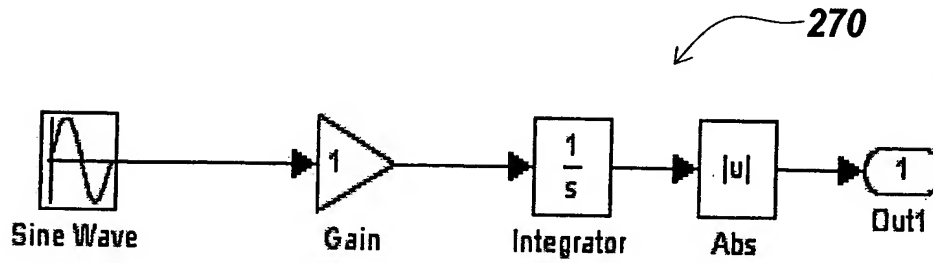
Figure 14



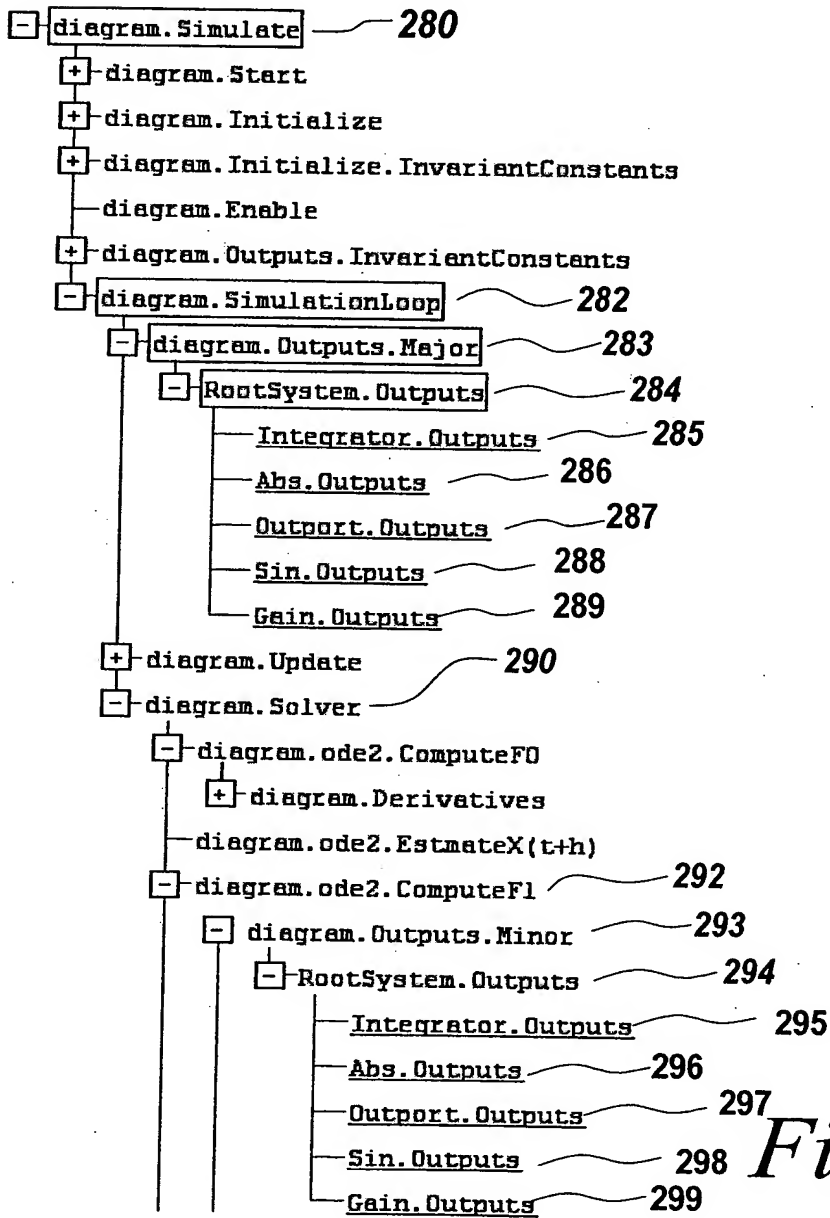




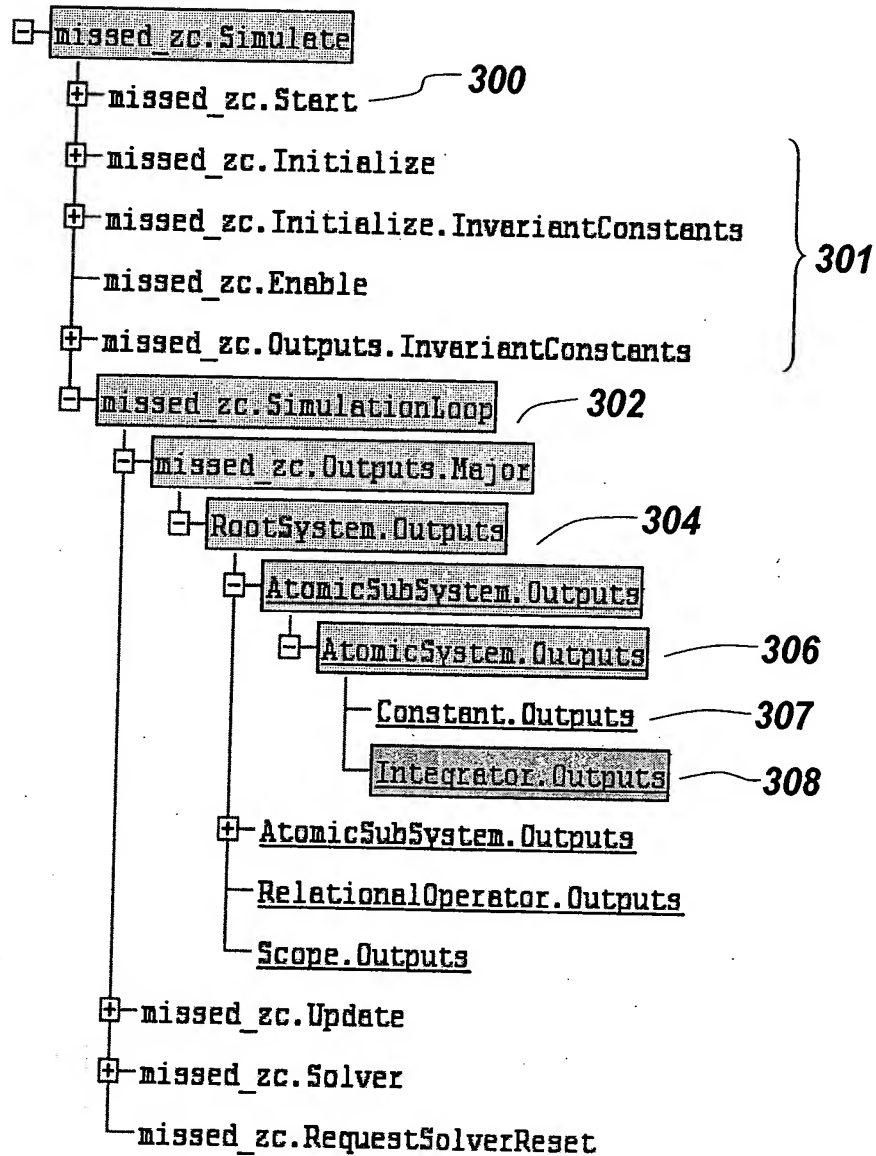
*Fig. 15*



*Fig. 16A*



*Fig. 16B*

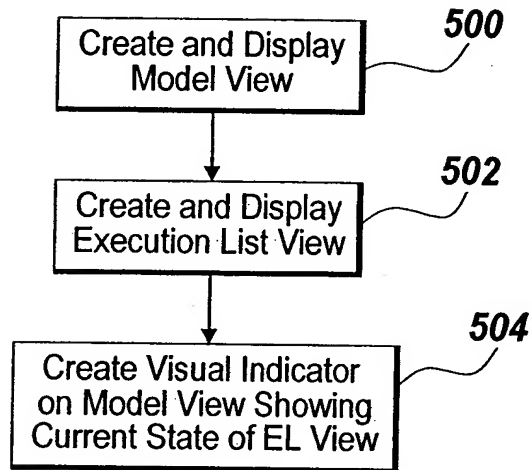
*Fig. 17*

310

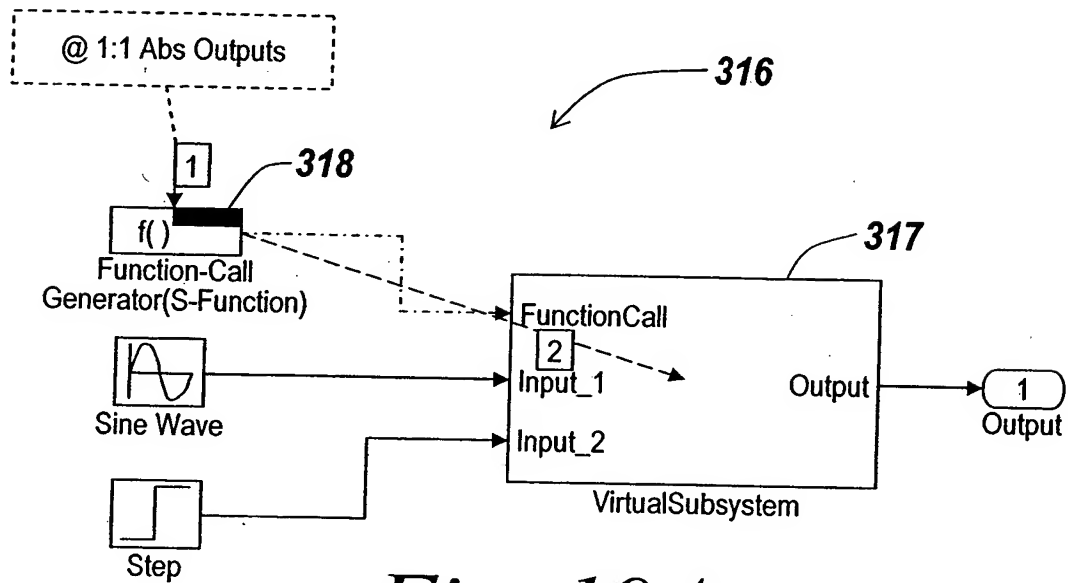
	Method	☐	ID
	- <u>diagram.Simulate</u>	☐	0
	+ diagram.Start	☐	1
311	→ - diagram.Initialize	☐	6
	- RootSystem.Initialize	☐	7
312	→ <u>Integrator.Initialize</u>	☐	8
	+ diagram.Initialize.InvariantConstants	☐	9
	diagram.Enable	☐	11
	+ diagram.Outputs.InvariantConstants	☐	12
313	→ - <u>diagram.SimulationLoop</u>	☐	14
	- <u>diagram.Outputs.Major</u>	☐	15
	- <u>RootSystem.Outputs</u>	☐	16
	<u>Integrator.Outputs</u>	☑	17
314	→ <u>Abs.Outputs</u>	☐	18
	<u>Outport.Outputs</u>	☐	19
	<u>Sin.Outputs</u>	☐	20
	<u>Gain.Outputs</u>	☐	21
	+ diagram.Update	☐	22
	+ diagram.Solver	☐	26
	diagram.RequestSolverReset	☐	143

315

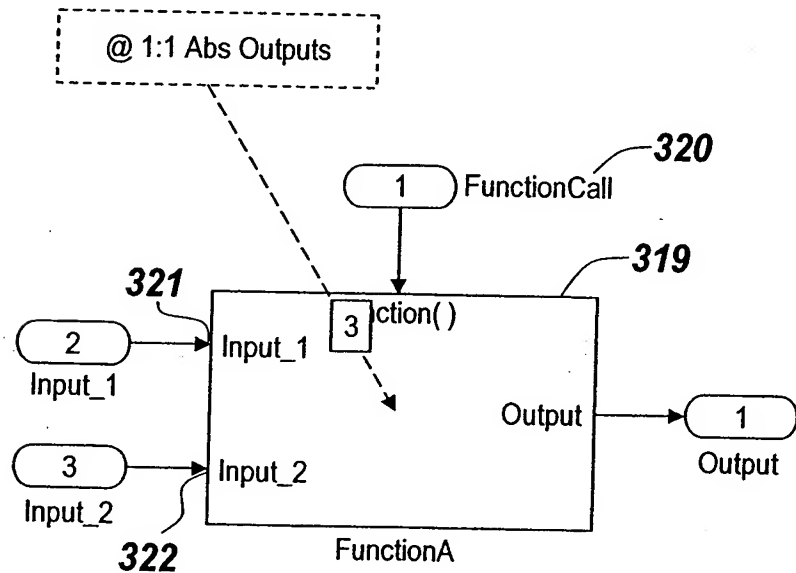
*Fig. 18A*



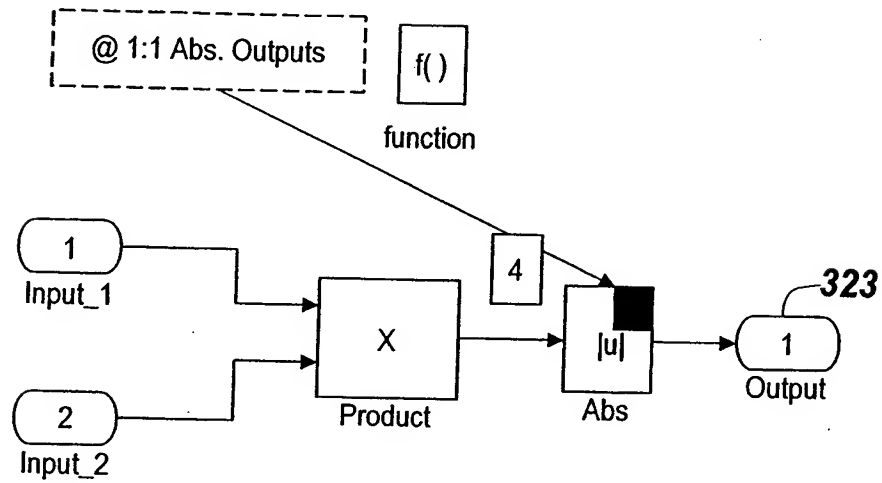
*Fig. 18B*



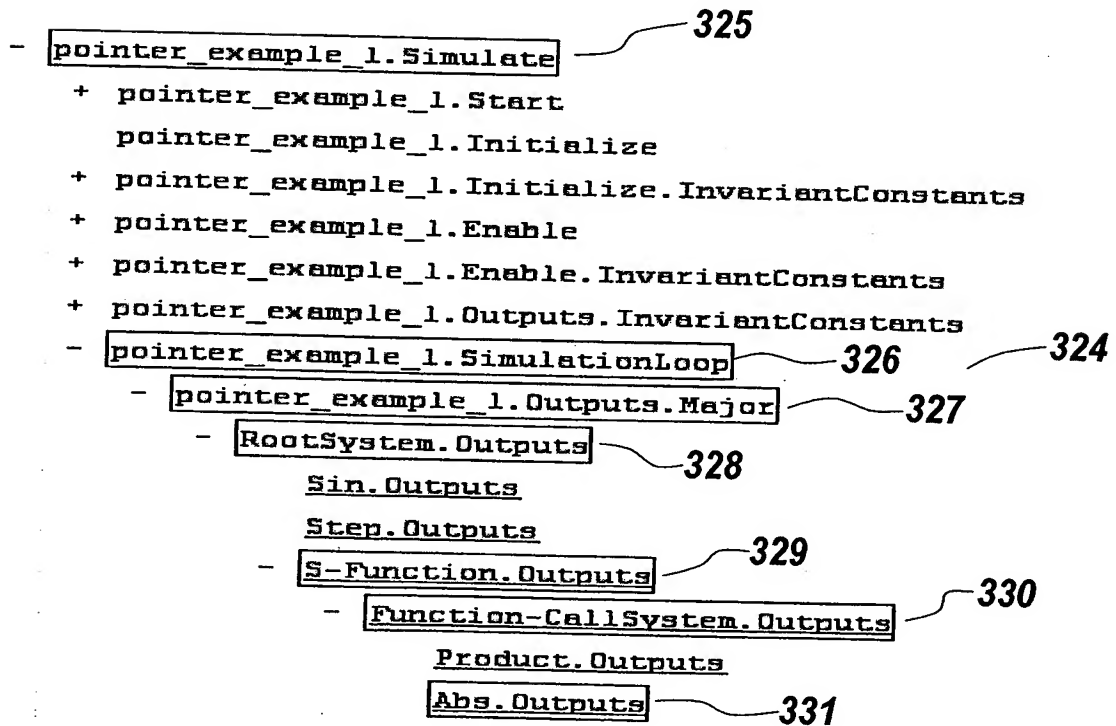
*Fig. 19A*



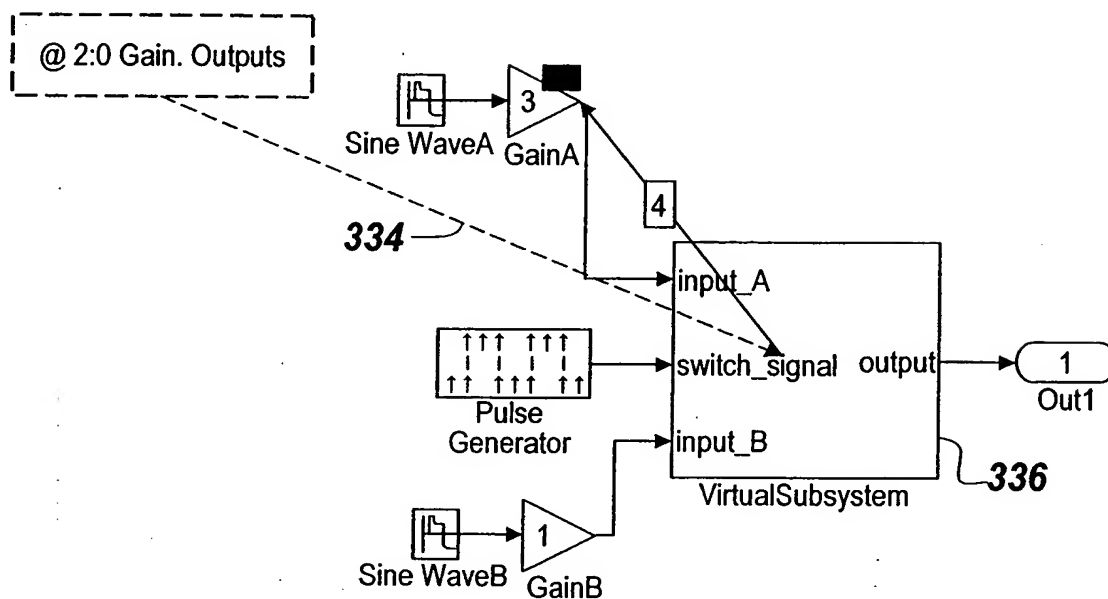
*Fig. 19B*



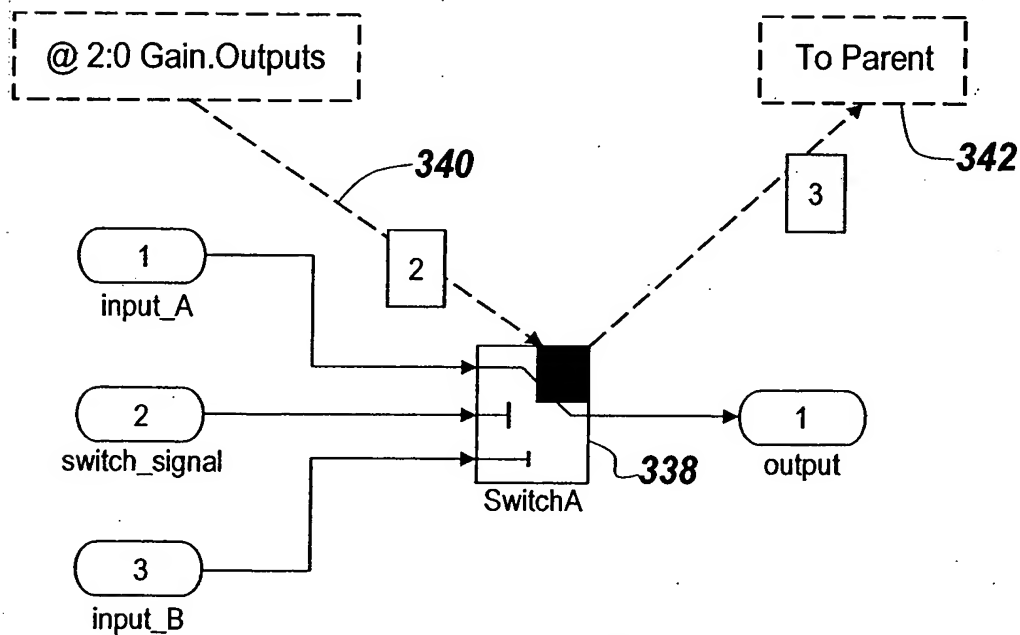
*Fig. 19C*



*Fig. 19D*

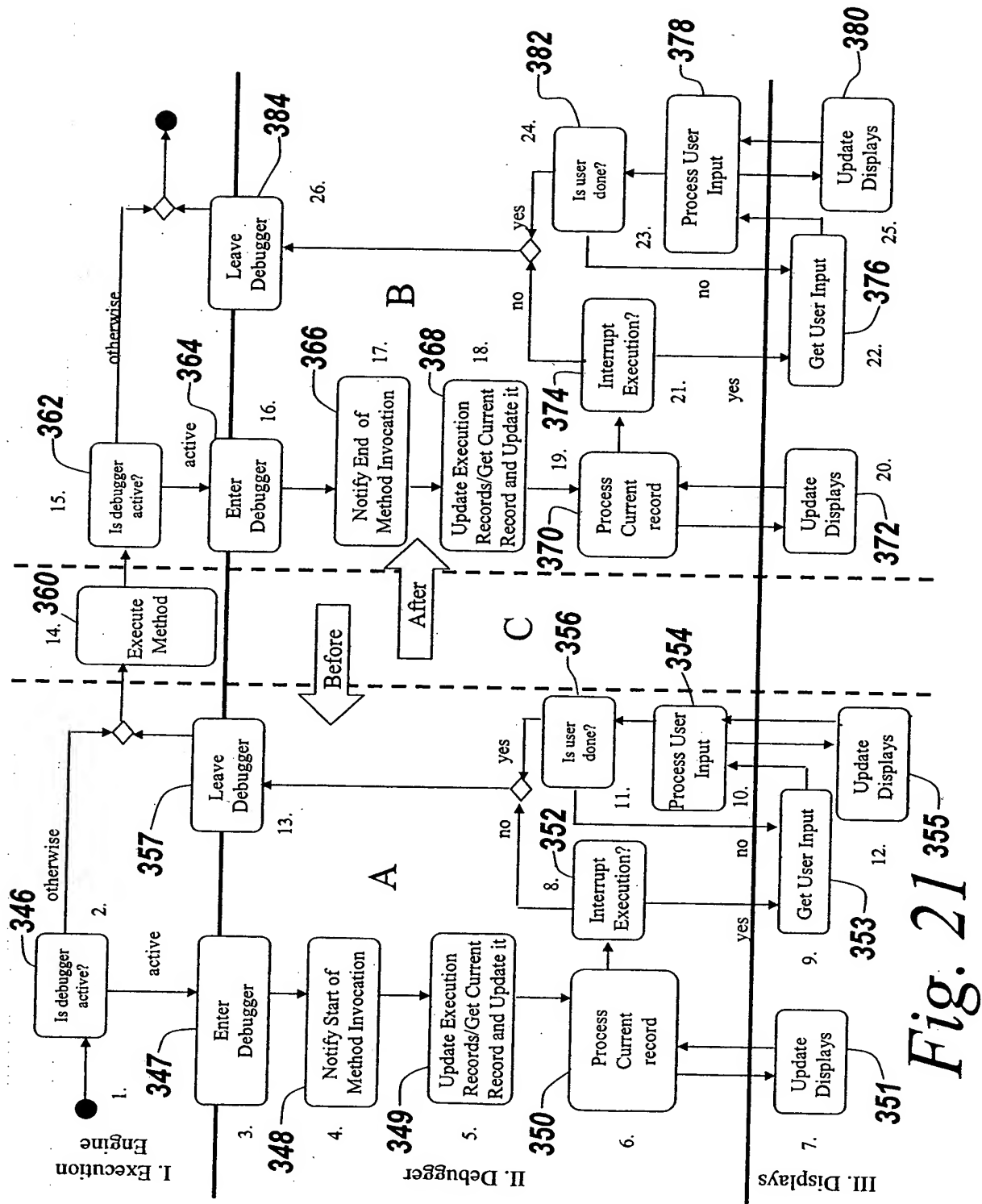


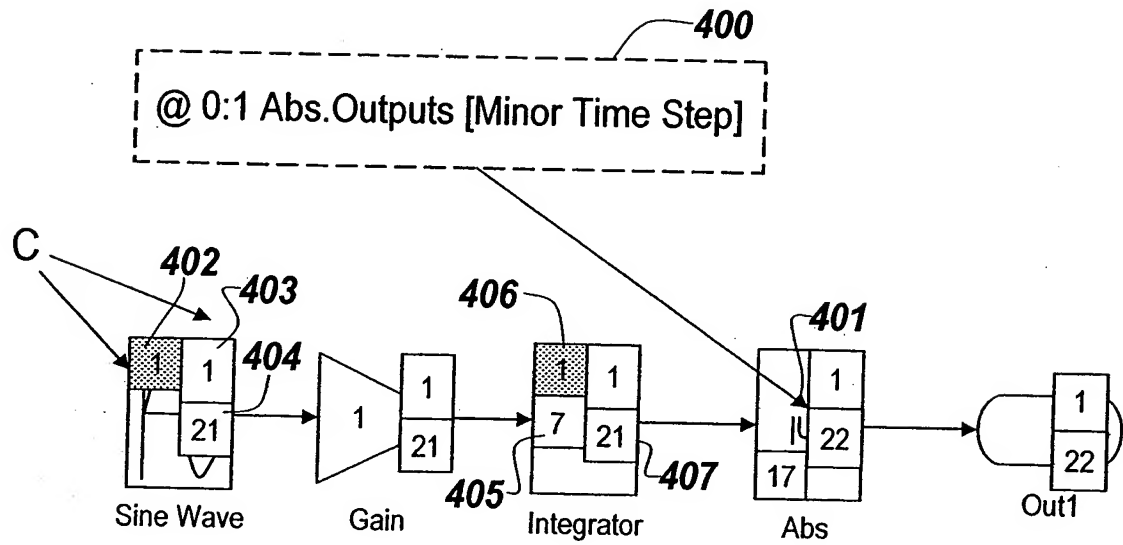
*Fig. 20A*



*Fig. 20B*







*Fig. 22*

420

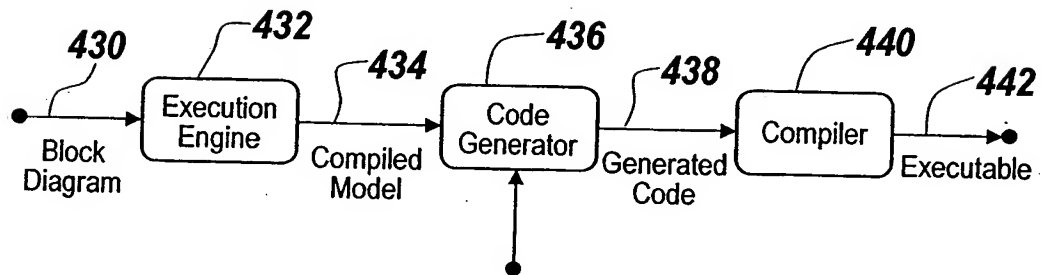
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[TM = 0.200000000000000038      ] diagram.Outputs.Major
(sldebug @15):

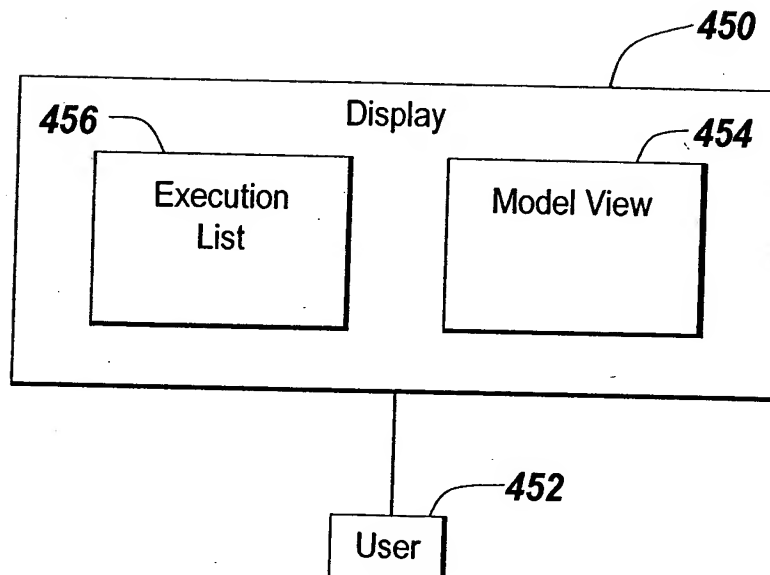
[TM = 0.200000000000000038      ] Entering 16      RootSystem.Outputs 'diagram'
[TM = 0.200000000000000038      ] Entering 17      0:0 Integrator.Outputs 'diagram/Integrator'
[TM = 0.200000000000000038      ] Exiting 17      0:0 Integrator.Outputs 'diagram/Integrator'
[TM = 0.200000000000000038      ] Entering 18      0:1 Abs.Outputs 'diagram/Abs'
[TM = 0.200000000000000038      ] Exiting 18      0:1 Abs.Outputs 'diagram/Abs'
[TM = 0.200000000000000038      ] Entering 19      0:2 Output.Outputs 'diagram/Out1'
[TM = 0.200000000000000038      ] Exiting 19      0:2 Output.Outputs 'diagram/Out1'
[TM = 0.200000000000000038      ] Entering 20      0:3 Sin.Outputs 'diagram/Sine Wave'
[TM = 0.200000000000000038      ] Exiting 20      0:3 Sin.Outputs 'diagram/Sine Wave'
[TM = 0.200000000000000038      ] Entering 21      0:4 Gain.Outputs 'diagram/Gain'
[TM = 0.200000000000000038      ] Exiting 21      0:4 Gain.Outputs 'diagram/Gain'
[TM = 0.200000000000000038      ] Exiting 16      RootSystem.Outputs 'diagram'
[TM = 0.200000000000000038      ] Exiting 15      diagram.Outputs.Major
[TM = 0.200000000000000038      ] Entering 22      diagram.Update
-----
[TM = 0.200000000000000038      ] diagram.Update
(sldebug @22):

```

Fig. 23



*Fig. 24*



*Fig. 25*